

## Recombinant Human HDAC6

**Cat. No.** HDAC6-28922TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length protein (Human), N-Terminal Tag.
<b>Species</b>	Human
<b>Description</b>	Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to class II of the histone deacetylase/acuc/apha family. It contains an internal duplication of two catalytic domains which appear to function independently of each other. This protein possesses histone deacetylase activity and represses transcription.
<b>Biological activity</b>	Activity: 50 U/ug. One U =1 pmol/min, Assay condition: 25 mM Tris/Cl,pH8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM MgCl <sub>2</sub> , and 0.1 mg/ml BSA, 30 uM Biomol substrate, and 5 ng/ul HDAC6. Incubation condition: 60 min at 30°C.
<b>Form</b>	Liquid
<b>Storage buffer</b>	Preservative: None Constituents: 10% Glycerol, 50mM Tris HCl, 20mM Glutathione, 138mM Sodium chloride, pH 8
<b>Storage</b>	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the histone deacetylase family. HD type 2 subfamily.Contains 1 UBP-type zinc finger.

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**Full Length**

Full L.

## GENE INFORMATION

**Gene Name**

HDAC6 histone deacetylase 6 [ Homo sapiens ]

**Official Symbol**

HDAC6

**Synonyms**

HDAC6; histone deacetylase 6; FLJ16239; HD6; JM21; KIAA0901;

**Gene ID**

10013

**mRNA Refseq**

NM\_006044

**Protein Refseq**

NP\_006035

**MIM**

300272

**Uniprot ID**

Q9UBN7

**Chromosome  
Location**

Xp11.23

**Pathway**

Cell cycle, organism-specific biosystem; Signaling events mediated by HDAC Class I, organism-specific biosystem; Signaling events mediated by HDAC Class II, organism-specific biosystem; TNF-alpha/NF-kB Signaling Pathway, organism-specific biosystem;

**Function**

Hsp90 protein binding; NAD-dependent histone deacetylase activity (H3-K14 specific); NAD-dependent histone deacetylase activity (H3-K9 specific); NAD-dependent histone deacetylase activity (H4-K16 specific); actin binding;

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